

In the claims:

Please enter the following amended claims:

1. A pneumatically driven electric power generator comprising:

a single cylinder having a first end connectable through a single inlet flowpath to an air supply passage containing air at a positive pressure, a second end of said cylinder being open;

a cylinder extension at least one of formed integrally with and attached to said single cylinder, said cylinder extension having an inner surface having a transverse dimension greater than a transverse dimension of said single cylinder, said cylinder extension including a threaded portion adjacent one end thereof;

an end closure threadably connected to an end of said cylinder extension;

a single piston having a magnetic moment associated therewith, said piston being positionable in a first location wherein at least a first portion of said piston is disposed within said cylinder and in a second location wherein said first portion of said single piston is outside of said single cylinder so that clearance is provided between said single cylinder so that air may exhaust from said single cylinder;

sealing means disposed on at least one of an outer surface of said first portion of said single piston and an inner surface of said single cylinder to prevent loss of air between said single piston and said single cylinder and permit air pressure in

said single cylinder to increase when said first portion of said single piston is disposed within said single cylinder;

a single biasing means caged between a ledge portion adjacent one end of said single piston and an inner surface of said end closure for moving said single piston from said second position toward said first position so that after said single cylinder has substantially exhausted, said single piston moves to said first position, whereby said single piston oscillates, moving back and forth between said first position and said second position, driven alternately by air supplied through such air supply passage to said single cylinder and by said biasing means; and

at least one electric coil placed to enclose changing magnetic flux caused by said magnetic moment associated with said piston whereby an emf is generated in said electric coil, so that an external circuit connected to said electric coil receives electric power from said electric coil.

5. A pneumatically driven electric power generator according to claim 1 wherein said generator further includes an exhaust passage connected to at least one of said cylinder extension and said end closure.

11. A pneumatically driven electric power generator according to claim 1 wherein said biasing means is a spring.

12. A pneumatically driven electric power generator according to claim 11 wherein said spring is a compression spring disposed between said piston extension and said end closure.

20. A pneumatically driven electric power generator comprising:

a first cylinder having a first end connectable through a first inlet flowpath to an air supply passage, a second end of said first cylinder being open;

a first cylinder extension at least one of formed integrally with and attached to said first cylinder, said first cylinder extension having an inner surface having a transverse dimension greater than a transverse dimension of said first cylinder;

a second cylinder having a first end connectable through a second inlet flowpath to said air supply passage, a second end of said second cylinder being open;

a second cylinder extension at least one of formed integrally with and attached to said second cylinder, said second cylinder extension having an inner surface having a transverse dimension greater than a transverse dimension of said second cylinder;

a means for connecting said first cylinder extension and said second cylinder extension;

a common exhaust for said first cylinder and said second cylinder;

a single piston having a magnetic moment associated

therewith, said single piston having a first end portion and a second end portion, said single piston being positionable in a first location wherein said first end portion of said single piston is disposed within said first cylinder and said second end portion of said single piston is disposed outside of said second cylinder, said single piston further being positionable in a second location wherein said second end portion of said single piston is disposed within said second cylinder and said first portion of said single piston is outside of said first cylinder;

so that when said single piston is disposed in said first position, air pressure received in said first cylinder through said first inlet flowpath drives said single piston toward said second position, whereupon said first cylinder exhausts, and when said single piston is disposed in said second position, air pressure received in said second cylinder through said second inlet flowpath drives said single piston toward said first position, whereupon said second cylinder exhausts, so that said single piston oscillates; and

at least one electric coil placed to enclose changing magnetic flux caused by said magnetic moment associated with said piston whereby an emf is generated in said electric coil, so that an external circuit connected to said electric coil receives electric power from said electric coil.